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L. Lloyd Morgan, director of the Central Brain Tumor Registry of the United States: "There is every indication that cell phones cause brain tumors, salivary gland tumors and eye cancer. Yet, because the cell phone industry provides a substantial proportion of research funding, this reality is hidden from the general public....It is time that fully independent studies be funded by those government agencies whose charter is to protect its citizens so that the truth about the very damaging health hazards of microwave radiation becomes clear and well-known." [1]

Researchers with the University of Chicago, 1988: "Microwaves most commonly cause anterior and/or posterior subcapsular lenticular opacities in experimental animals, and as shown in epidemiologic studies and case reports, in human subjects. The formation of cataracts seems to be related directly to the power of the microwave and the duration of exposure.....Like cataract formation by microwaves, cataractogenesis induced by ionizing radiation is associated with damage to the lens cell membrane. Another possible mechanism is damage to lens cell DNA....Until further definitive conclusions about the mechanism of microwaves and ionizing cataracts are reached, and alternative protective measures are found, one can only recommend mechanical shielding from these radiations to minimize the possibility of development of radiation-induced cataracts." [2]

Eye Damage in the Microwave Age



Google is perhaps the most dedicated radiation-peddling army in the world. Operating behind a logo of 666, this corporate juggernaut is building a global cell tower network in the sky, advancing self-driving vehicles that spew radar, promoting digital ID tattoos and touting gut radios to be swallowed in the form of pills. These militants from Triplesixville are also ensuring that students across the globe are "up to their eyeballs" in cataract-inducing radiation. Children are holding transmitting smart phones directly up to their faces with paraphernalia provided by Google's Expeditions Pioneer Program (EPP). EPP kits include a smart phone for every cardboard headset, wireless routers for accessing Expeditions field trips and a wireless teacher tablet for directing the narrative. While such "travels" would be equally educational using a safe and distant large screen, the apparent idea of wireless virtual reality goggles is to keep near-field microwave carcinogen flowing directly into the eyes and brains of as many children as possible.

Environmental Health Trust (EHT) scientists are calling on Google to stop the spread of this wireless virtual reality system designed to booby-trap little kids: " 'Two-way radio transceiver systems, in the form of Smartphones should not be used directly in front of children's eyes and brains,' cautions University of Utah Distinguished Professor Om Gandhi, who is one of the original developers of testing to evaluate wireless radiation from cell phones and who is a senior advisor to EHT.' "

[3] Parents and educators who are blinded by the cunning enticements of wireless classrooms, must not yet understand that impairing the eyesight of students is actually *not* in anyone's best interest.

Never before in human history has such a threat against human eyesight been unleashed as today in the Microwave Age. Three decades ago, the FCC approved the first commercial mobile phone (Motorola's Dyna TAC 8000). Today, wireless antenna radiation, documented to seriously damage the eye even at non-thermal levels, has become inescapable for most people, including infants. High-frequency microwaves, designated as a Group 2B carcinogen by the International Agency for Research on Cancer (IARC), now flow perpetually through everyone's body, *including eye tissues*. We know now that this radiation is equivalent to ionizing radiation in its capacity to maim and kill. A nation thus abused is a nation where healthy human eyes and enduring clarity of eyesight is a blessing of the long-gone past.

Epidemiological studies of people living close to cell tower antennas document widespread complaints about eye and vision abnormalities (Santini 2002/ Oberfeld 2004/ Bortkiewicz 2004). Many radiation victims damaged by cell phones, Wi-Fi antennas and smart meters complain of the same. The documented pathological effects on human eyes from RF/microwave radiation include: eye inflammation and redness, pain or burning in the eyes, a feeling of pressure behind the eyes, floaters, cataracts, deteriorating vision and eye cancers.

Buildings, vehicles and aircraft saturated with RF/microwave radiation are exceptionally hazardous to human eyes. As with UV sun damage, microwave eye damage may become obvious only months or years after the damage has been inflicted, leaving the vision-impaired with no proof as to the origin of their radiation-induced disabilities, pain and economic hardship. Meantime, wireless radiation profiteers are not, by law, liable for universal eye damage and incremental loss of eyesight induced by their toxic wireless products and services.



Recent media reports advise that continual exposure to small screen wireless technology has potential to "make young eyes old before their time." Many small screen slaves develop a "dry eye" condition that results in gritty, inflamed eyes resulting from hours of staring at miniature mobile screens. [4] The mind apparently focuses so strongly on the screen that users forget to blink, affecting eye lubrication.



In 2013, a leading UK eye surgeon warned that smart phones are causing sight problems to soar in children as young as seven, as evidenced by the epidemic of shortsightedness attributed to holding tiny, bright screens close to the eyes for long periods of time. [5]

Apart from eye strain and focusing issues, there are other more devastating effects of microwave radiation which has potential to literally "cook" the eye tissues of those who continually expose themselves to non-thermal wireless devices and microwave-saturated environments. If powerful GSM, 3G and 4G radiation from cell phones and tablet computers can travel at the speed of light to tower antennas miles away, that same radiation can most certainly penetrate the human eye only inches or millimeters away.

Radiation researcher Dr. Ross Adey is quoted in the International Encyclopedia of Neuroscience as confirming that about 40 percent of the electromagnetic energy emitted from cell phones *goes directly into the hand and the head of users*. [6] And research by Dr. Om Gandhi, working at the University of Utah, verified that microwave radiation *is delivered deeply into the eye* from wireless devices positioned directly against the skull. [7] This man-made energy oscillates (vibrates) eye tissues at millions or billions of times per second.



Here is crucial information from Dr. Gandhi's research regarding the absorption of radiation from cell phones and other wireless devices held to the head:

◆ **Adult eye: microwave absorption = 3.3 milliwatts/kg** This is 330,000 times more radiation than the full body exposure limit advised by BioInitiative scientists in 2007.

◆ **Eye of a 10 year-old child: microwave absorption = 18.38 milliwatts/kg** This is 1.8 million times more radiation than the full body exposure limit advised by BioInitiative scientists in 2007.

◆ **Eye of a five year-old child: microwave absorption = 40 milliwatts/kg** This is 4 million times more radiation than the full body exposure limit advised by BioInitiative scientists in 2007.

Dr. Gandhi's work showed that the eyes of a ten-year-old absorb *five times more* cell phone radiation than adult eyes, while five year-old eyes absorb *12 times more*. These absorption numbers, calculated in 1996, do not reflect the higher radiation exposures suffered by millions of people today who utilize the newer, ultra-powerful 3G and 4G mobile communications equipment.

Dr. Henry Lai, renown bio-medical researcher at the University of Washington, has stated: "Another important area of research on morphological effects of RFR [radio frequency radiation] exposure, that could have important implications on cellular telephone use, is that on the eye. Damage to corneal endothelials, degenerative changes in the iris and the retina, and altered vision were reported in nonhuman primates after repeated exposure to RFR." [8]

In 2008, a collaborative study by scientists at the Israel Institute of Technology and the Washington University School of Medicine also confirms that for humans: **"...High frequency microwave electromagnetic radiation from mobile phones and other devices has potential to damage eye tissues...."** [9]



The US government quickly learned during and after World War II that RF/microwave radiation permanently damages eye tissues and denigrates eyesight. This became obvious as many radar technicians of that era developed numerous eye pathologies, including retina damage and inoperable cataracts. By 1963, Dr. Milton Zaret, working at New York University, had collected a great deal of information on human occupational cataracts. He found that electronic and communications workers exposed to infrared or intense heat developed cataracts on the front of the lens. But workers who suffered repeated microwave irradiation at non-thermal intensities developed cataracts on the posterior surface of the lens: **"Zaret discovered that such microwave damage manifested itself early on as a roughening of the posterior eye surface and that the victim might experience misty vision for years before the actual cataract formed."** [10] Dr. Zaret's research was criticized and minimized by the military-industrial complex which, even in his day, was gearing up for the universal microwave assault we all suffer today.

Microwave-induced cataracts are different than other types of hereditary, metabolic and senile cataracts. Microwave cataracts are known as subcapsular cataracts at the posterior of the lens. [11] Subcapsular cataracts results in glare and blurriness of vision; many are inoperable.

A person who damages his eye lens forfeits proper eye focus and image quality. A 1994 US Air Force study reported: **"Clinical studies indicate that exposure to RF/MW radiation causes physiological damage to the eye that can result in loss of sight. It has been observed that irradiation causes the formation of cataracts in the lens of the eye....The lens of the eye appears to be most susceptible to RF/MW radiation at frequencies between 1-10 gigahertz. For this frequency range, it has been observed that the lens fibers will suffer irreversible damage to a greater extent than other ocular elements."** [12]

This is confirmation that gradual lens damage is inevitable for the hundreds of millions of Americans who spend their lives immersed in torrents of unregulated Wi-Fi radiation, propagated everywhere these days between 2.45 and 10 gigahertz. Many cell phones, smart phones, tablets and Bluetooth devices also irradiate at gigahertz frequencies. The upcoming Vehicle to Vehicle (V2V) gigahertz radar system, approved by the federal government for all new vehicles after 2016, will undoubtedly ensure incremental eye damage for everyone within 900 feet of the gigahertz signals to be perpetually broadcasting from collision-avoidance systems. (Find V2V information on the home page.)



The Institute of Electrical and Electronics Engineers (IEEE) is a professional association which serves as technical adviser to the Federal Communications Commission (FCC). As a powerful engine behind the advancement of wireless technology, IEEE is directly responsible for the FCC's deadly and non-protective RF/microwave exposure standards which enable and aggrandize the military-industrial complex at the expense of human health. Ironically, ANSI-IEEE Committee documents from June 2001 reveal that this group absolutely knows that eye tissues are among the most radiation-sensitive in the human body. These are quotes from ANSI-IEEE Committee minutes of 2001:

1. "In the range of a few GHz (gigahertz as in Wi-Fi), resonances may occur in ball shaped eyes and testes....Additionally these organs are thermally a bit more vulnerable than other tissues."
2. "Exposure to microwave radiation can lead to increased temperature that is sufficient to damage tissues."
3. "Microwaves at lower frequencies will be deposited deeper in the eye, while at higher frequencies they will be absorbed near the front surface of the eye."
4. "The lens has been thought to be the most vulnerable tissue since it has no blood flow....Because the lens is avascular, it has been thought to be particularly sensitive to thermal effects of microwave exposure." [13]

The FCC likewise states in its *Questions and Answers Bulletin*: "Two areas of the body, the eyes and the testes, are known to be particularly vulnerable to heating by RF energy because of the relative lack of available blood flow to dissipate the excessive heat load (blood circulation is one of the body's major mechanisms for coping with excessive heat)....Laboratory experiments have shown that short-term exposure (i.e. 30 minutes to one hour) to very high levels of RF radiation (100-2000 mW/cm²) can cause cataracts in rabbits." [14]

The wireless radiation industry propagandizes that personal wireless devices do not generate enough heat to harm living tissues. Likewise, in its rabid promotion of all things wireless, the FCC insists on keeping the public mired in the "non-thermal" con game. Determined to promote obsolete theories and frivolous assumptions, FCC states: "Studies have shown that environmental levels of RF energy routinely encountered by the general public are far below levels necessary to produce significant heating and increased body temperature." [15]

But modern science has proven these assumptions *completely false*. Non-thermal cell phone radiation flowing into human eyes can quickly cause abnormal and dangerous heating of both brain and eye tissues.

◆ In 2007, British researchers reported that cell phones emitting 900 megahertz or 1.8 gigahertz can raise the temperature in the eyes by 1.4 degrees centigrade, bringing the heating level up to the ICNIRP thermal limit level for OCCUPATIONAL EXPOSURE. [13] Occupational exposure limits are higher than those recommended for the general public. In addition, this study was conducted before the exceptionally powerful 3G and 4G phones became widely available. [16]

◆ In 2010, scientists from Charotar University of Science and Technology in India confirmed that mobile phone radiation, supposedly flowing at non-thermal levels, heats the eyes enough to cause damage: " 'The problem is not that the eye absorbs the energy, but that the heat absorbed by the eye does not get transmitted or radiated out of the body,' says Dwivedi [Professor Ved Vyas Dwivedi who headed the study] adding that prolonged usage of mobile phones can affect retina, sclera, lens, cornea as well

◆ In 2011, the government of India warned that the use of cell phones causes vision damage through heating of corneal tissues. The Indian Department of Telecommunications noted that cell phone radiation is mainly absorbed by the skin of the head and face, causing the temperature to rise by a fraction of a degree. The agency confirmed that this supposedly minor heating causes eye damage because the cornea, like the lens, has no capacity for temperature regulation or dissipation of heat generated by wireless microwave devices. [18]

Medical researchers conducting the 2008 Israeli-US study cited above exposed bovine eye tissues to repetitive assaults of 1.1 gigahertz at only 2.22 milliwatts (mW/cm²). Compare that power density to today's mobile phones which reportedly radiate an average power of between 200 and 600 milliwatts. The Israeli researchers found **"irreversible morphological and biochemical damage to the lens epithelial cell layers."** They found that the lens tissues actually became pitted with bubbles, a precursor to cataract formation. The damage was so radical that these scientists advised people to stop irradiating their eyes with mobile phones and use landlines, pending further research. [19]

Therefore, the latest medical science indicates that children perpetually exposed to wireless microwaves are guaranteed to ultimately suffer eye damage and deteriorating vision at a much younger age than previous generations. An astronomical number of very young American children now require eyeglasses. *Metal-rimmed glasses can absorb microwaves, then re-emit that radiation onto the eye surface, intensifying radiation exposure. Children wearing metal rimmed eyeglasses in a Wi-Fi, cell phone or cordless phone environment are undoubtedly at high risk for deteriorating eyesight.*



Following is a list of additional important studies which give clue to what perpetual microwave exposure to fragile human eye tissues means to Microwave Man, Woman and Child:

1. A 1968 Polish study of 200 workers exposed to 0.6-10.7 GHz (within the realm of modern microwave device emissions) found a statistically significant increase in lens opacities in the eyes of many exposed individuals. The study found that the severity of the damage increased with the duration of radiation exposure. [20]
2. A 1970s Russian study of 600 workers found that exposure to microwave radiation correlated with an increased incidence of lens opacity (cataract). [21]
3. In 1998, the Canadian government's Radiation Protection Bureau (RPB) published a paper citing a wide range of studies implying that radio frequencies, such as those emitted by cell phones, have potential to cause adverse synergistic effects with certain drugs. One study, for example, showed that when a common anti-glaucoma drug was administered to test animals, eye damage could be induced at only one tenth of the radiation power density normally required. [22]
4. This same RPB paper further stated: **"Experimental work on the eye found that the blood-aqueous and blood-vitreous humor barriers were also permeabilized (induced to leak) by low-intensity RF fields. This work was later extended to nonhuman primates by H. Kues, who showed that microwaves, at frequencies close to those used today by cellular telephones, produced irreversible damage to the endothelial layer of the cornea."**

5. In 2007, Chinese researchers published a study on protein changes in human eye lenses exposed to 1.8 gigahertz from GSM mobile devices. Microwaved lenses showed abnormal changes in four different proteins. Inducing protein abnormalities in the eye is very dangerous because cataracts form after tissue proteins pathologically clump together and scatter light abnormally. [23]

6. In 2013, Chinese researchers, noting that billions of people now communicate with 900 megahertz and 1.8 gigahertz cell phones, exposed human eye lens epithelial cells to low intensity radiation propagated at 1.8 gigahertz. Their study showed not only gene and protein disruptions, but also severe oxidative stress which is **"implicated in many opthalmological disorders, e.g., senile cataracts, age-related macular degeneration of the retina and dry eye disease."** [24]

7. In a study of children with chronic fatigue, Japanese researcher Dr. Ryoichi Ogawa discovered that only 30 seconds of cell phone radiation transmitted into the ear cuts blood flow in arteries of the eye by over 50 percent. Using the super Doppler method, a test that verifies blockage of brain blood vessels, Dr. Owaga found that prior to cell phone use, human subjects generally show a normal blood flow of 10 cm/sec. in the arteries of both eyes; after phone use, the flow dropped to less than 5 cm/sec. This drastic effect indicates both reduced eye blood flow and also reduced brain blood flow. [25]

8. Studies conducted at the University of Essen in Germany showed that the iris and the base of the retina also efficiently absorb cell phone radiation. The retina is home to the macula, vital to clear vision. Damage to the retina can cause extreme vision damage, such as that involved in macular degeneration. [26]

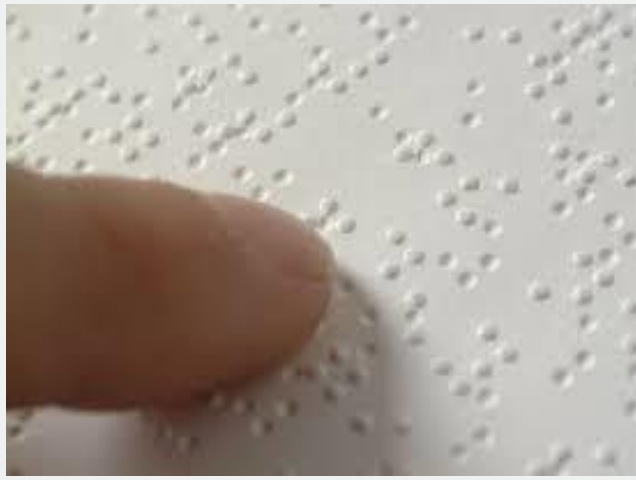
Among the most serious risks from microwave exposure are eye cancers. Thousands of Americans, including many children, suffer from eye cancers. The American Cancer Society estimates that for 2016, another 2810 Americans will get a new diagnosis for eye or eye orbit cancer. This is about a 25% increase over the 2004 national eye cancer estimate. [27] There are a number of different cancers which affect the eyeball, the orbit (tissues around the ball) and the adnexal structures which include the eyelids and tear glands. The American Cancer Society states: **"Cells become cancer cells because of damage to DNA."** [28] Because pulsed microwave radiation employed by wireless technologies is documented to quickly damage DNA, this high-frequency energy pumped into the eyes presents a risk for ocular cancers. It is hard to look at pictures of eye cancers, but they are a reality of our Microwave Age.



The most common type of adult eye cancer is uveal melanoma, a cancer of the watery uveal layer. In 2001, research by a team of medical scientists at the University of Essen in Germany showed that people who regularly use microwave emitting communication devices are at significantly higher risk of developing cancer of the eye. At Essen, a leading cancer treatment center, these scientists examined 118 patients suffering from uveal melanoma. They compared the mobile phone and walkie talkie use of this group to a control group of 475 non-users. [29]

◆ Those who used RF/microwave-powered walkie talkies were over **THREE TIMES** more likely than non-users to develop eye cancer.

◆ Those who used mobile phones were **FOUR TIMES** more likely than non-users to develop eye cancer.



Federal data suggests that an estimated 80 million Americans (nearly one in four) already have a potentially blinding eye disease or condition. [30] In a nation feverishly dedicated to exposing every citizen to numerous frequencies of eye-damaging Wi-radiation, these questions need to be discussed:

- ◆ Why have there been **NO** federally funded studies for investigation of human eye and vision damage occurring from exposure to personal wireless devices and ubiquitous environmental microwave antennas??
- ◆ Why are wireless communications devices, sold for use on the head and body, **NOT** required to bear full-disclosure warning labels about the well-documented potential of RF/microwaves to induce eye damage and disease??
- ◆ Why are parents **NOT** warned by US health agencies about the extreme vulnerability of young children who use wireless personal devices near their eyes, and why is Wi-Fi radiation now polluting public schools and school buses everywhere??
- ◆ Why are U.S. medical schools **NOT** teaching medical trainees about the potential for severe and permanent eye damage from universal microwave exposure in the Wireless Age??
- ◆ Why are *elderly people*, who suffer natural deterioration of eyesight, additionally subjected to toxic Wi-Fi environments in hospitals and care centers? And why do most hearing aid systems, used on the head near the eyes, employ wireless RF/microwave technology??
- ◆ Why did not the federal government study the long-term effects of near-field gigahertz radiation on human eyes before approving the use of vehicle collision avoidance transmitters (in the 9.5 gigahertz range) for the upcoming national V2V deployment project??
- ◆ Why do US regulatory agencies allow Google666 to sell microwave-emitting virtual reality goggles and the Google Glass computer eye wear *to be worn directly over the eye* (smart glasses) without adequate pre-market human testing and without medical certification that these devices will not cause eye damage?? [Google Glass Risks](#)



The Food and Drug Administration (FDA), the only federal agency authorized to ensure the “safety” of personal wireless devices, has thus far refused to recognize past and current medical research demonstrating the correlation between wireless microwaves and human eye damage. While these impotent regulators sit on their hands, millions of Americans are having their vision incrementally and irreparably damaged by chronic exposure to high-frequency radiation from personal Wi-devices and from millions of environmental Wi-antennas.

Most tragically, limitless Wi-radiation saturating the environment flows continually as deadly electromagnetic currents through sperm, ova and fetuses. This portends inevitable and severe eye damage for the pre-born and the newborn. A 2014 scientific report from India gives clue as to how Wi-technologies can cruelly affect the eyesight of children tumbling into a Wi-toxic world. Scientists exposed chick embryos in an egg incubator to 2G cell phone radiation, just as uninformed pregnant women heavily expose their developing babies in the womb to 4G smart phone/tablet radiation, even more energetic and powerful than 2G: **“...The exposure of chick embryos to a 2G cell phone caused structural changes in the lens epithelial cells, formation of cystic cells and spaces, distortion of lens fibers, and formation of posterior aberrant nuclear layer. The DNA damage in the developing eyes of the experiment group assessed by comet assay was highly significant.”** [31] This study provides additional confirmation that Wi-radiation is teratogenic with potential to cause birth defects of many types.

Note: If you are pregnant, or wish to be pregnant, avoid all variety of exposure to Wi-radiation. It is your basic human right to protect your unborn child against teratogenic and potentially eye-damaging RF/microwave radiation.

Since US regulatory agencies, medical authorities and private foundations are currently unwilling to advocate for the protection of human eyesight in regards to unbridled wireless radiation exposure, those who wish to preserve the integrity of their vision must use common sense, to ***PROTECT THEMSELVES***. Informed citizens can:

- ◆ **Refuse to buy and use wireless devices which inject pulsed microwave radiation deeply into the eyes.**
- ◆ **Remove all sources of wireless microwave pollution from homes, cars, work places and demand microwave-free zones in all areas of public accommodation, including schools and medical centers.**
- ◆ **Help educate others about the insidious and irreversible effects of RF/microwave radiation on human eye tissues and on the ability to maintain eye health and to see well. Most commercial and public buildings in the US are saturated with Wi-Fi radiation, yet few Americans know that when scientists recently exposed rats to only one hour of Wi-Fi, the animals suffered damage to the eye lens. This study was published in 2014. [32]**
- ◆ **Take antioxidant vitamins to protect against unavoidable environmental radiation. Scientists investigating oxidative stress in the lens and corneal tissues of rats exposed to cell phone radiation found that vitamin C may help to reduce some of the damaging short-term effects. [33]**

Reference Notes with Additional Information

Please construe nothing at this website as medical advice.

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